

## Product datasheet for **RR216490**

### Usp46 (NM\_001191596) Rat Tagged ORF Clone

#### Product data:

**Product Type:** Expression Plasmids  
**Product Name:** Usp46 (NM\_001191596) Rat Tagged ORF Clone  
**Tag:** Myc-DDK  
**Symbol:** Usp46  
**Synonyms:** RGD1564808  
**Vector:** pCMV6-Entry (PS100001)  
**E. coli Selection:** Kanamycin (25 ug/mL)  
**Cell Selection:** Neomycin  
**ORF Nucleotide Sequence:** >RR216490 representing NM\_001191596  
**Red=Cloning site Blue=ORF Green=Tags(s)**

TTTTGTAATACGACTCACTATAGGGCGCCGGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC  
GCC**GCGATCGCC**

ATGACTGTCCGAAACATCGCTCCATCTGTAATATGGGCACCAATGCCTCTGCTCTGAAAAAGACATTG  
GACCAGAGCAGTTTCCGATCAATGAACACTACTTCGGATTGGTCAATTTGGGAACATGCTACTGTAA  
CTCCGTGCTCCAAGCATTGTACTTCTGCCGGCCGTTCCGGGAGAATGTGTTGGCATAACAAGGCCAGCAG  
AAAAAGAAGGAAAACCTGTTGACGTGCCTGGCAGACCTTTCCACAGCATTGCCACGCAGAAGAAGAAGG  
TTGGCGTCATCCACCAAAGAAGTTCATTTCAAGGCTGAGGAAAAGAGAACGATCTCTTTGATAACTACAT  
GCAGCAGGATGCTCATGAATTTTAAATTTTGTCTAAACACTATTGCGGACATCCTGCAGGAAGAGAAG  
AAACAGGAAAAACAAAACGGGAAATTAATAATGGCAACATGAATGAGCCGGCAGAGAATAGTAAGCCAG  
AACTCACCTGGGTCCACGAGATTTTTCAGGGAACACTCACTAACGAAACTCGATGCTTGAAGTGTGAAAC  
TGTGAGTAGCAAAGACGAAGATTTTCTTGACCTCTCTGTTGATGTGGAACAGAACACCTCCATCACCAT  
TGCTCTGAGAGACTTCAGCAACACAGAAACGCTGTGTAGTGAGCAAAAAGTACTATTGTGAAACATGCTGCA  
GCAAAACAGGAGGCTCAGAAGAGGATGAGGGTAAAAAAGCTGCCCATGATTTTGGCCCTGCACCTAAAGAG  
GTTCAAGTACATGGAGCAGCTCCACAGGTACACCAAGCTGTCTTACCGGGTGGTCTTCCCTCTGGAGCTC  
CGGCTCTTCAACACCTCCAGCGATGCTGTCAACCTGGACCGCATGTATGACCTGGTTGCTGTCTGCTGTTT  
ACTGTGGAAGTGGTCTAACCGTGGCATTACATCACCATCGTAAAAAGTCATGGCTTTTGGCTATTGTT  
TGATGACGACATCGTAGAGAAAAAGATGCTCAAGCCATTGAGGAATTCTATGGTCTAACGTCAGACATA  
TCAAAAAATTCAGAATCTGGATATATTTTATTCTATCAATCAAGAGAA

**ACGCGT**ACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAATGATATCCTGGATT  
ACAAGGATGACGACGATAAGGTTTAA



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**Protein Sequence:** >RR216490 representing NM\_001191596  
 Red=Cloning site Green=Tags(s)

MTVRNIASICNMGTNASALEKDIGPEQFPINEHYFGLVNFNGNTCYCNSVLQALYFCRPFRENVLAYKAQQ  
 KKKENLLTCLADLFHFSIATQKKKVGVIIPKFIISRLRKENDLFDNYMQQDAHEFLNYLLNTIADILQEEK  
 KQEKQNGKLNKGNMNEPAENSKPEL TWVHEIFQGLTNETRCLNCETVSSKDEDFDLSDVDVEQNTSITH  
 CLRDFSNTETLCSEQKYCYCETCCSKQEAQKRMVKKLPMILALHLKRFKYMQLHRYTKLSYRVVFPLEL  
 RLFNTSSDAVNLD RMYDLVAVVVHCGSGPNRGHYITIVKSHGFLLFDDIVEKIDAQAIEEFYGLTSDI  
 SKNSESGYILFYQSRE

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

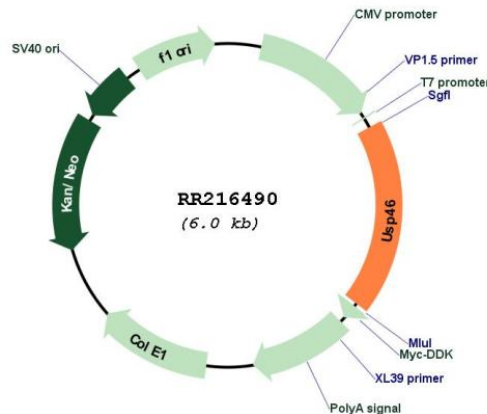
**Restriction Sites:**

SgfI-MluI

**Cloning Scheme:**



**Plasmid Map:**



**ACCN:** NM\_001191596

<b>ORF Size:</b>	1098 bp
<b>OTI Disclaimer:</b>	The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. <a href="#">More info</a>
<b>OTI Annotation:</b>	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
<b>Components:</b>	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
<b>Reconstitution Method:</b>	<ol style="list-style-type: none"><li>1. Centrifuge at 5,000xg for 5min.</li><li>2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.</li><li>3. Close the tube and incubate for 10 minutes at room temperature.</li><li>4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.</li><li>5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.</li></ol>
<b>RefSeq:</b>	<a href="#">NM_001191596.1</a> , <a href="#">NP_001178525.1</a>
<b>RefSeq Size:</b>	4594 bp
<b>RefSeq ORF:</b>	1101 bp
<b>Locus ID:</b>	289584
<b>UniProt ID:</b>	<a href="#">F1M625</a>
<b>Cytogenetics:</b>	14p11
<b>MW:</b>	42.4 kDa
<b>Gene Summary:</b>	Deubiquitinating enzyme that plays a role in behavior, possibly by regulating GABA action. May act by mediating the deubiquitination of GAD1/GAD67 (By similarity). Has almost no deubiquitinating activity by itself and requires the interaction with WDR48 to have a high activity. Not involved in deubiquitination of monoubiquitinated FANCD2 (By similarity). [UniProtKB/Swiss-Prot Function]